

display means connected to the computer for displaying objects on a screen;

glove means adapted to be worn on a hand of a user, the glove means including gesture sensing means coupled to the glove means for detecting flexure of fingers of the user's hand, and position sensing means coupled to the glove means for detecting a position of the hand with respect to the display means;

interface means for coupling the glove means to the computer; and

control means for controlling a cursor indicated on the display means in real time in response to the flexure of fingers and the position of the hand.

13. (Amended) An apparatus for controlling a computer display comprising:

flex sensing means, disposed in close proximity to a part of the body of the user, for sensing flexure of the associated part of the body of the user; and

cursor display means, coupled to the flex sensing means and to the computer display, for displaying a cursor depicting the flexure of the part of the body in real time.

Sub. 3
E4

24. (Amended) An apparatus for [manipulating]
interacting with a virtual object represented [on] within a
computer [display] comprising:

position sensing means, disposed in close
proximity to a part of a body of a user for movement
therewith, for sensing the position of the associated part
of the body of the user with respect to the [display]
computer;

C3
CONT

interface means for coupling the position sensing
means to the computer and for controlling movement of a
cursor [indicated on the display] represented within the
computer in real time in response to the position sensing
means; and

wherein the computer includes contact detecting
means for detecting contact between the cursor and the
virtual object.

27
25. (Amended) The apparatus according to claim 24 26
wherein the virtual object may be manipulated by the cursor
and wherein the interface means includes object manipulating
means for manipulating the virtual object with the cursor in
response to the contact detecting means and in response to

Sub. 26
E6

30. (Amended) The apparatus according to claim 29 wherein the [cursor display] interface means [displays] depicts within the computer a virtual hand which mirrors the position and flexure of the fingers of the user's hand.

Sub. 27
E7

32. (Amended) The apparatus according to claim 31 wherein the flex sensing means detects the degree of flexure of the fingers of the user's hand, and wherein the [cursor display] interface means [displays] depicts within the computer the degree of flexure of the fingers of the user's hand.

OK

33. (Amended) An apparatus for controlling a computer display comprising:

orientation sensing means, disposed in close proximity to a part of a body of a user, for sensing the orientation of the associated part of the body of the user with respect to the display; and

cursor display means, coupled to the orientation sensing means and to the computer display, for displaying a cursor depicting the orientation of the part of the user's body in real time.

the position of the part of the user's body with respect to the [display] computer.

26. ~~(Amended) The apparatus according to claim 25~~
further comprising:

flex sensing means, disposed in close proximity to a part of the body of the user for movement therewith, for sensing flexure of the associated part of the user's body; and

wherein the interface means couples the flex sensing means to the computer for controlling the cursor in response to the flex sensing means.

27. (Amended) The apparatus according to claim 26 [further comprising:

cursor display means coupled to the position sensing means, to the flex sensing means, and to the computer display, for depicting] wherein the interface means depicts the cursor within the computer as the position and flexure of the part of the user's body.

Please add the following claims:

~~24~~²⁵. The apparatus according to claim 13 wherein the flex sensing means senses the degree of flexure of the part of the user's body and provides an analog signal to the cursor display means that indicates the degree of flexure of the part of the body;

and wherein the cursor display means depicts the flexure of the part of the body based on the intensity of the analog signal.

~~25~~²⁵. The apparatus according to claim ~~24~~²⁴ wherein the analog signal is a function of voltage.

~~41~~⁴¹. The apparatus according to claim 26 wherein the flex sensing means senses the degree of flexure of the part of the user's body and provides an analog signal to the interface means that indicates the degree of flexure of the part of the body;

and wherein the interface means depicts the flexure of the part of the body based on the intensity of the analog signal.

⁴³
~~51~~. The apparatus according to claim ~~50~~⁴² wherein the analog signal is a function of voltage.

D ⁴⁴
~~52~~. The apparatus according to claim ²⁸~~27~~ further comprising display means for visually displaying the cursor as the position and flexure of the part of the user's body with respect to the display.

⁴⁵
~~53~~. The apparatus according to claim ~~52~~⁴⁴ wherein the display means visually displays the virtual object together with the cursor.

³³
~~54~~. The apparatus according to claim 32 further comprising display means for visually displaying the cursor as the position and flexure of the fingers of the user's hand.

³⁴
~~55~~. The apparatus according to claim ~~54~~³³ wherein the display means visually displays the virtual object together with the cursor.

⁶¹
~~56~~. The apparatus according to claim ~~55~~⁴⁶ wherein the cursor display means further comprises means for displaying

44

a cursor depicting the roll orientation of the part of the user's body.

⁶²
~~57.~~ The apparatus according to claim ⁴⁶~~33~~ wherein the cursor display means further comprises means for displaying a cursor depicting the pitch orientation of the part of the user's body.

⁶³
~~58.~~ The apparatus according to claim ⁴⁶~~33~~ wherein the cursor display means further comprises means for displaying a cursor depicting the yaw orientation of the part of the user's body.

⁶⁴
~~59.~~ The apparatus according to claim ⁴⁶~~33~~ wherein the cursor display means further comprises means for displaying a cursor depicting the pitch, roll and yaw orientation of the part of the body.

⁶⁵
~~60.~~ The apparatus according to claim ⁴⁷~~34~~ wherein the flex sensing means senses the degree of flexure of the part of the user's body and provides an analog signal to the interface means that indicates the degree of flexure of the part of the body;